The LN-1 voltamenter. Avt. transp. 36 no.2:14 F '58. (MIRA 11:2) (Alcotric motors)

KAZANSKIT, A., instruktor politchasti polyarnoy aviatsii, YEMEL'YANOV, A., instruktor politchasti polyarnoy aviatsii.

Initiators of flights without navigators. Mor. flet 18 ne.5:22-23 (MRA 11:6) My 158. (Navigation (Aeronautics)) (Arctic regions--Aerial exploration)

YEMEL YAHOV. A.

Fires in multistory buildings. Pozh.delo 6 no.4:16-18 Ap '60.
(MIRA 13:11)

1. Nachal'nik otdela Upravleniya poharnoy okhrany Mosgorispolkoma. (Buildings-Fires and fire prevention)

YEMEL'YANOV, A., kand.tokhn.nauk; RAZYKOV, R., inah.

Testing the air and water permeability of joints of exterior walls in large-panel buildings. Zhil.stroi. no.8:13-16 Ag '61. (MIRA 14:8)

(Walls)

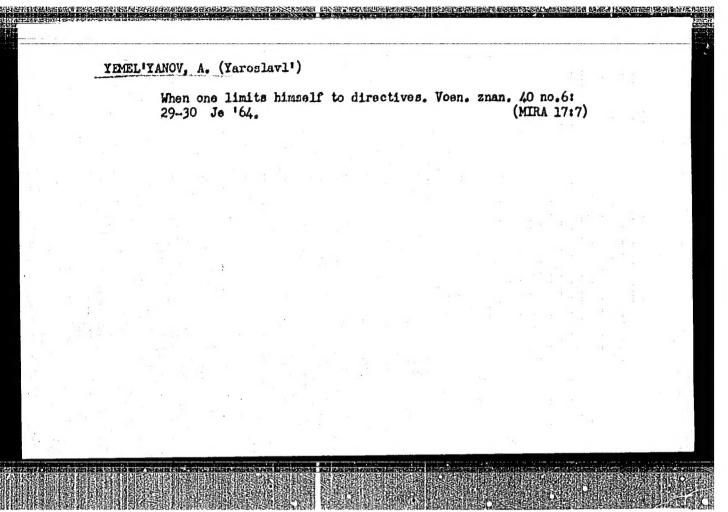
Increase labor productivity and lower operating costs at grain receiving stations. Muk.-elev. prom. 24 no.7:14-15 Jl '58. (MIRA 11:10)

l.Kuybyshevskaya normativno-issledovatel'skaya stantsiya. (Grain trade)

 Confere sestra	nce on the subje 21 no.4:60-61 Ap	ct "Moral image 162. (NURSES AND	e of the Sovie	t nurse". Med. (MIRA 15:4)	
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					i

DOMANOY, V. (Moskva); POKROVSKIY, T. (Moskva); KOZHUKHAREV, I. (Minsk)
KARMAZCHOV, A. (Chelyabins); POZDHTAKOV, V. (Leningrad);
YEMEL'YAHOV, A. (Krasnodar); PUGOVKIH, Ye. (Astrakhan');
CHUPAKOV, A.

Suggestions of the readers. Radio no.8:55 Ag '60. (MIRA 13:9)
(Radio)



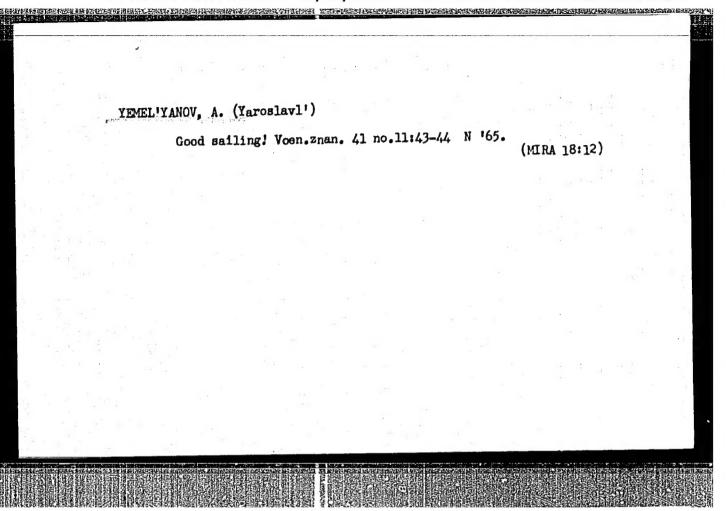
VOL'SKIY, V.; GRIDCHIN, I.; YEMEL'YANOV, A.; RABAN, V. (Lutsk); VOLOSHINSKIY, V. (Lutsk)

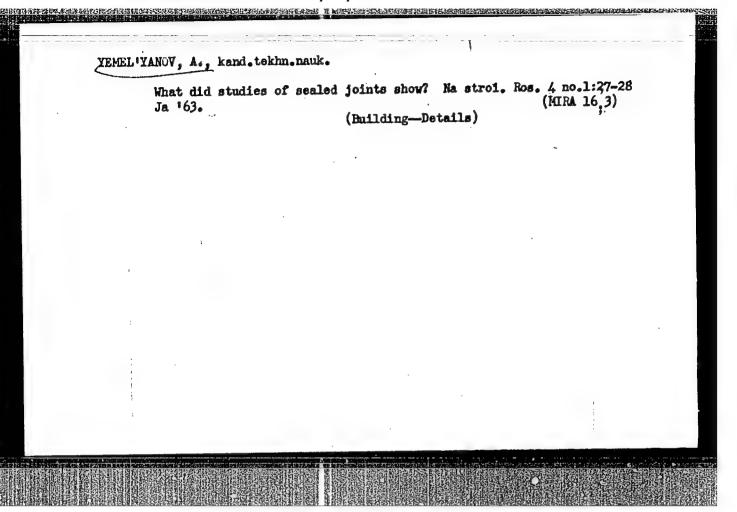
Exchange of news and experience. Izobr. i rats. no.7:18-19 J1 162. (MIFA 16:3)

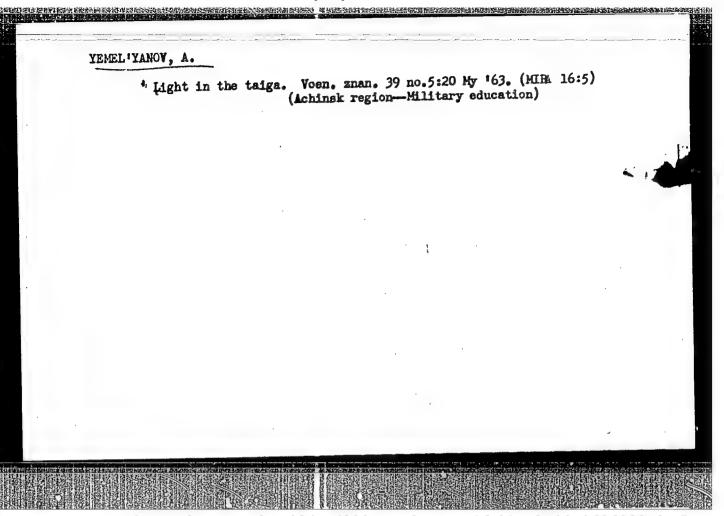
1. Sotrudnik zhurnala "Nauka i tekhnika", Riga (for Vol'skiy).

2. Otvetstvennyy sekretar' gazety "Put' Oktyabrya", Lugansk (for Gridchin). 3. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, Orenburgskogo shelkokombihata (for Yehel'yanov).

(Technological innovations)







U YEMEL YANOV, A.

Friends of communist brigades. NTO 5 no.3:27-30 Mr 163. (MIRA 16:4)

1. Spetsial nyy korrespondent zhurnala "Mauchno-tekhnicheskiye obshchestva SSSR".

(Minsk-Tractor industry-Technological innovations)

YEMEL'YANOV, Are mayor, voyennyy letchik vtorogo klassa

Additional recomnaissance of moving targets. Av.i kosm. 45
no.2247-49 F '63. (MIRA 1612)
(Aeronautics, Military-Observations)

Expansion joints in large-panel buildings. Zhil, stroi. no.2:
22-24, '63. (Building-Details)

YEMEL'YANOV, A., kand.tekhn.nauk

Engineering abroad. Grazhd.av. 20 no.4:31 Ap '63. (MIRA 16:5)

(Asronautics, Commercial)

YEMEL'YANOV, A.

The people of Roslavl' are learning. Voen. znan. 40 no.8:20-21 Ag '64. (MIRA 17:11)

1. Zamestitel' predsedatelya Smolenskogo oblastnogo komiteta Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya mini, aviatsii i floty po orgmassovoy rabote i propagande.

YEMEL YANOV, A.A.

Resection of the common carotid artery in extensive operations for malignant tumors of the upper respiratory tract. Zhur.ush., nos.i gorl.bol. 22 no.2:68-72 Jl-Ag '62. (MRA 16:2)

1. Iz otorinolaringologicheskogo otdeleniya (zav. - prof. N.A. Karpov) Instituta onkologii AMN SSSR.

(RESPIRATORY ORGANS—CANCER) (CAROTID ARTERY—EXCISION)

MANSHILIN, V.V.; MANAKOV, N.Kh.; AGAFONOV, A.V.; VASILENKO, V.P.;

MASLOV, I.Ya; KHYAZEV, V.S.; Prinimali uchastiye: EZLCUSGVA, I.V.;

HEHEZOVSKIY, V.D.; BOL'SHAKOVA, K.A.; YEMEL'YANOV, A.A.;

ZEFIROVA, Ye.G.; NEMETS, L.L.; OKINSHEVICH, N.A.; RYABOV, V.M.;

STEPANENKO, I.A.; STOLYARENKO, Ye.G.; SOLOTSINSKIY, S.Ye.;

KHRAMOV, A.Ye.; CHELOGUZOVA, Ye.F.

Engineering development of a new system of catalytic oracking in a fluidized bed. Khim.i tekh.topl.i masel 7 no.6:41-50 Je '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

(Cracking process)

(Fluidization)

YEMP YHUM! A H	THE PARTY OF THE P
	Bynthesis and investigation of some aftiglarifethans; an initiators of polymerization. It. N. Manywane, and A. A. Prinel' ganoy, "There is deprint for the Cotta Ma Tr. 179 M. Refers Char. Astern 1974 in the Cotta Ma Tr. 179 M. Refers Char. Astern 1974 in the Cotta Ma Tr. 189 of sectivity perceited. II. in the gradient of the Cotta May of the St. 189 of the Cotta May of the Cott

YEMELYANOV, A.A.

56-3-46/59

AUTHORS:

Yemel'yanov, A.A., Rozental', I.L.

TITLE:

On the Part Played by Nucleons in the Processes of the Multiple Production of Particles (O roli nuklonov v protsessakh mnozhest-vennogo obrazovaniya chastits) (Letter to the Editor)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3 (9), pp. 808 - 809 (USSR)

ABSTRACT:

In the processes of the simple production of particles on the occasion of collisions of nucleons of high energy with nuclei the nucleons play a special part with respect to the mesons. Apart from the conservation of the nuclear charge and the mass difference between nucleons and mesons, a less distinctly marked peculiarity must be pointed out, which manifests itself mainly in connection with the hydromechanical description of the phenomenon. At energies of the primary nucleon of E = $10^{12}-10^{13}$ eV the temperature of the hydrodynamical stage of expansion amounts to 1 to 2 Mc² (M - mass of the nucleon), in which case $T \gg \mu c^2$ (M - mass of the pion). At these energies the probability of the creation of nucleon - antinucleon pairs during the entire duration of the processes is very low. The authors here

Card 1/3

On the Part Played by Nucleons in the Processes of the Multiple Production of

describe a simplified model of the flying apart of the system. The authors investigate the capture collision of a nucleon with a nucleon. With interaction between nucleons a meson cloud is produced, which is compressed non-adiabatically by the nucleons as a "piston". In the system thus produced the kinetic energy of the nucleons is separated in the very narrow volume lying between them. The present work investigates the part of energy carried away by the fast nucleon. For the solution of this problem the relativistic hydrodynamical equations $\partial T_i/\partial x_i = 0$, $T_{ik} = wu_i u_k + pg_{ik}$ are investigated here. Here w = k + p denotes the thermal function of the unit volume, $u_i - the four-velocity$, and it is true that $g_{11} = g_{22} = g_{33} = 1$, $g_{44} = -1$, $x_i = x, y, z, ict$. In addition there is a boundary condition. For $E = 10^{+11} - 10^{12}$ eV it is sufficient to determine the solution for a simple wave within range of the not trivial motion. By solution of the equation of motion of the nucleon it is possible to obtain the energy E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon at the moment of the decay of the symmetry E_i of the nucleon of the energy E_i of the nucleon of the energy E_i of the nucleon of the energy of the fast nucleon has

Card 2/3

On the Part Played by Nucleons in the Processes of the Multiple Production of

the shape $E_k/E_0 \sim E^{-1/15}$. It further applies that $E_k \sim v^{-0}$, 4 (v - volume). There are 4 Slavic references.

ASSOCIATION:

Physics Institute imeni P.N. Lebedev AN USSR

(Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR)

SUBMITTED:

June 20, 1957

AVAILABLE:

Library of Congress

Card 3/3

56-2-39/51

AUTHOR:

Yemel'yanov, A. A.

TITLE:

On the Spatial Distribution of Photons in the Vicinity of the Axis of Wide Atmospheric Showers (O prostranstvennom raspredelenii fotonov vblizi osi shirokikh atmosfernykh livney)

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 2, pp. 516 - 518 (USSR)

ABSTRACT:

As is known the calculation of the function of spatial distribution of the soft components of wide atmospheric showers taking into account avalanche processes as well as ionization losses are very difficult. But with small r the high-energy particles play the main part and the ionization losses of these particles can be neglected. Here the author determines the photon-density corresponding to such an electron distribution. For this purpose one of the Landau equations is used. For the solution of this problem it is sufficient to put $\psi_{\text{rad}}(E^{\dagger}E) = 1/E. \quad \psi_{\text{rad}}(E^{\dagger}E) \text{ denotes}$ the probability of the emission of a photon with an energy

Card 1/3

56-2-39/51

On the Spatial Distribution of Photons in the Vicinity of the Axis of Wide Atmospheric Showers

> E by an electron with the energy E'. The equation resulting from the integration over all angles 9 as well as the azimuth in the level being at right angles to the shower axis are mentioned in detail. The solution found by taking into account a boundary condition is given in detail. Finally the author determines the ratio $N_1/N \sim ln(E_k/rE)$. Here N, means the number of photons with an energy exceeding the energy given. N(t,E,r) is the function of spatial distribution of the electrons with an energy exceeding that given with a neglecting of the ionization losges. The following example can easily be computed: At E = 10^8 eV N₁/N about 7-8 is found in 1 m distance from the shower axis with high--energy of E = 10¹⁴ eV of the primary electron. This effect can be explained by the fact that the electrons being in the vicinity of the shower axis are accompanied by many photons. With sufficiently great distances also the ionization losses must be taken into account. There are 6 references, 4 of which are Slavic.

Card 2/3

On the Spatial Distribution of Photons in the Vicinity of the Axis of Wide

ASSOCIATION: Institute of Physics ideni P. N. Lebedev AS USSR

(Fizicheskiy institut im. P. N. Lebodeva Akademii nauk SSSR)

SUBMITTED: November 20, 1957

AVAILABLE: Library of Congress

1. Photons-Distribution 2. Photon-Density 3. Electrons-Distribution

Card 3/3

21(7), 24(5)

AUTHOR:

Yemel'yanov, A. A.

SOV/56-36-5-40/76

TITLE:

On the Rôle of Viscosity in the Hydrodynamical Theory of the Multiple Production of Particles (O roli vyazkosti v gidrodinamicheskoy teorii mozhestvennogo obrazovaniya chastits)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 5, pp 1550-1554 (USSR)

ABSTRACT:

In Landau's hydrodynamical theory of multiple particle production in collisions of high-energy nucleons, the process of the expansion of the meson-nucleon cloud is described as the dispersion of an ideal ultrarelativistic liquid. Though the theoretical results are, on the whole, in agreement with those obtained by experiment, the theory for the angular distribution of secondary particles results in greater anisotropy than was found experimentally. In this connection the author investigates the expansion of such a system on the basis of the model of a viscous ultrarelativistic liquid. As a result of energy dissipation occurring in the motion of the viscous liquid, the entropy of the system increases, and therefore additional particles are created in an expanding meson cloud, in deviation from Landau's theory. An investigation of the dissipative processes within the

Card 1/3

CIA-RDP86-00513R001962620013-1

On the Rôle of Viscosity in the Hydrodynamical Theory of the SOV/56-36-5-40/76 Multiple Production of Particles

framework of hydrodynamics leads to the formation of new parameters - phenomenological coefficients of viscosity, thermal conductivity, etc. In the present investigation the author calculates only the viscosity coefficient of a given quantity and determines its influence on the characteristic of the elementary act. A comparison between theoretical and experimental results shows the necessity of empirically evaluating the viscosity coefficient. The problem of the part played by viscosity in the hydrodynamical theory of the multiple production of particles has already been investigated by Hamaguchi, whose papers are criticized by the author. A number of inacouracies is specially mentioned and discussed. He himself investigates the problem of the onedimensional symmetric widening of a plane infinite layer of little thickness in a vacuum in consideration of viscosity, and presents an asymptotic solution of the onedimensional equations. He shows that consideration of viscosity in the angular distribution of secondary particles leads to less strong anisotropy than if an ideal fluid is considered. The thanks I. L. Rozental' for his advice and assistance, and further also G. A. Milekhin and D. S. Chernavskiy

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Card 2/3

On the Rôle of Viscosity in the Hydrodynamical Theory of SOV/56-36-5-40/76 the Multiple Production of Particles

for discussions. There are 8 references, 5 of which are Soviet.

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of

Sciences, USSR)

SUBMITTED:

December 7, 1958

Card 3/3

YEMEL'YANOV, A.A.: CHERNAYSKIY, D.S.

Effect of viscosity in multiple production on the energy distribution of secondary particles. Zhur.eksp.i teor.fiz. 37 no.4:1058-1061 0 '59. (MIRA 13:5)

1. Fizicheskiy institut imeni P.N.Lebedeva Akademii nauk SSSR. (Nuclear reactions)

现代为我们也是是全国。\$P\$我们只要的婚姻的歌剧回答。\$P\$我们的感觉是是是是想到这种是我们的我们也就是不可能的。但这些对对是是多种的感染的影响的我们是是多多个多年的心态的影响和不同心态度。

Yemelyanov, A. A.

HIGH ENERGY A. A. Yemelyanov, I. L. Rosental

Experimental data on A -meson showers observed under heavy layers of the Earth are analyzed (mainly the data obtained by Barret, Bollinger, Kokkoni, Eisenberg and Greizen). Calculations made on the basis of different models show that at small distances the observed showers cannot be explained by the usual mechanisms of A -meson production when A -mesons decay in the air. Analysis of possible local processes shows that the showers observed at great depths cannot be due to pairs of A -mesons produced by photons, A -mesons originating when A -mesons decay in rock, A -processes or radiation. The calculated value for the appearance of A -meson trident (direct

The calculated value for the appearance of A -meson trident (direct production of A -pairs in rock) is closer to the experimental shower frequency. However, in this case, too, the experimental value is somewhat greater than the theoretical one.

If this difference is of real significance, one should conclude that additional sources of \wedge -meson production exist for high energy particle interactions.

Calculated curves for the space distribution of high energy A -mesons close to the extensive shower axis are presented.

The calculations are based upon the most probable models of the elementary process and in particular upon the Landau theory.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

YEMELYANOV. A. A.

THE ROLE OF VISCOSITY IN THE HYDRODYNAMIC THEORY OF MULTIPLE HIGH EMERGY PARTICLE PRODUCTION A.A. Yemelyanov, D.S. Chernavskiy

The influence of viscosity upon the separation of the relativistic liquid in the multiple production of particles is considered. It turns out that the influence is particularly strong in the front edge region, firstly, because the velocity gradients in that region are maximal, and secondly, the dissipation of energies and the associated production of additional particles strongly affect the energy distribution of secondary particles. The calculation carried out by the method of successive approximations shows that the number of particles in the front edge region which owe their origin to viscosity increases logarithmically

with increase in primary energy. It follows that at sufficiently high energies one particle cannot carry away a substantial fraction of the energy of the entire system (as is the case at energies of the order of 10^{12} - 10^{13} ev).

Report presented at the International Cosmic Ray Conference, Moscow, 6-11, July 1959

YEMEL'YANOV, A.A.; ROZENTAL', I.L.

Two-center model and the hydrodynamic theory of multiple particle generation. Zhur. eksp. i teor. fiz. 38 no.1:194-197 Jan *60. (MIRA 14:9)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Nuclear models) (Collisions (Nuclear physics))

83774

5/056/60/039/003/034/045 BC06/BO63

24.6900 AUTHORS:

Yemel'yanov. A. A., Dovzhenko, O. I.

TITLE:

Spatial Distribution of High-energy Nuclear-active

Particles in the Core of an Extensive Atmospheric Shower

PERIODICAL: Zhurnal

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 3(9), pp. 814-821

TEXT: First, the authors discuss several problems relating to the spatial distribution of secondary shower particles. Then, they pass over to the subject proper and first examine the passage of high-energy nuclear-active particles through the atmosphere. In doing so, they proceed from the equation of motion followed by the flux density function $P(E,t,\bar{t},\bar{\theta})$ of nuclear-active particles obeys. E is the particle energy, t the observational altitude (in nuclear interaction ranges), \bar{t} the radius vector in the plane perpendicular to the shower axis, and $\bar{\theta}$ is a vector in the direction of particle motion. It is assumed that $E \gg Mc^2$ and $\theta \ll 1$. Various relations are derived for the distribution functions, and the mean squares $\bar{\theta}^2 = P_{\uparrow}(E)/P_{\bar{\theta}}(E)$ and

Card 1/4

Spatial Distribution of High energy Nuclear active Particles in the Core of an Extensive S/056/60/039/003/034/045 Atmospheric Shower $\frac{1}{r^2} = P_3(E)/P_c(E) \text{ are then examined. } P_0(E) = \int_0^\infty \int_{\Omega}^\infty P(E,t,r,0) dt dr d0,$ $P_1(E) = \int_0^\infty \int_{\Gamma}^\infty P(E,t,r,0) dt dr d0, \text{ and } P_3(E) = \int_0^\infty \int_{\Omega}^\infty P(E,t,r,0) r^2 dt dr d0.$ Then one obtains: $\theta^2 \approx 1.1(\mu c^2/E)^2 \left[b^2 + 0.7(P_1/\mu c)^2\right]$ and $\frac{10\%}{r^2} \approx 3.0(\mu c^2/E)^2 \left[b^2 + 0.7(P_1/\mu c)^2\right].$ These two formulas are accurate within the particles must be expressed for an energy higher than a given one; then one obtains: $\frac{10\%}{r^2} \approx 3.0(\mu c^2/E)^2 \left[b^2 + 0.7(P_1/\mu c)^2\right].$ For $E \approx 5.10^{11} ev$, be 3, and $P_1 \approx 3\mu c$, the resulting theoretical value for the root-meansquare radius is $\frac{1}{r^2} (\gtrsim 10^{12} ev)^{1/2} \approx 0.6 \text{ m (at an altitude of 3,860 m (Pamirs))}.$ Card 2/4

83774

Spatial Distribution of High-energy Nuclearactive Particles in the Core of an Extensive B006/B063 Atmospheric Shower

 $[r^2 \ (\gtrsim 10^{12} \ ev)]^{1/2} \gtrsim 1$ m was obtained in the experimental way. The difference between experimental and theoretical values is explained by the fact that while the transverse momentum was taken to be ≈ 3 µc, it may be considerably higher. For particles with $E \gtrsim 5 \cdot 10^{11}$ ev, renters the spatial distribution function as the product rE; the distribution function is formulated as $P(E,r,t) = P(E,t)F(rE/kE_{\alpha})$. P(E,t) is the total number of nuclear-active particles having an energy between E and E+dE. The second term is formulated as follows: $F(rE/kE_{\alpha}) = e^{-rE/kE_{\alpha}}$. Fig 1 shows the experimental and theoretical space distributions of particles with $E \gtrsim 5 \cdot 10^{11}$ ev and $E_{\alpha} \approx 1.5 \cdot 10^{9}$ ev. These values correspond to b ≈ 6 and $p_1 \approx 3$ µc. Fig 2 shows the energy spectrum of nuclear-active particles for a distance r of 0 - 1 m and (1 - 2) m from the axis of a shower with N = 10^{5} . The authors thank G. A. Milekhin, G.T. Zatsepin, S.I. Nikol'skdy, and I. L. Rozental' for discussions; A. A. Pomanskiy for submitting results prior to publication; and G. Ya. Goryacheva and G. V. Minayeva for Card 3/4

83774

Spatial Distribution of High-energy Nuclear- Sactive Particles in the Core of an Extensive B Atmospheric Shower

S/056/60/039/003/034/045 B006/B063

numerical computations. I. Ya. Pomeranchuk, A. B. Migdal, and L. D. Landau are mentioned. There are 2 figures and 14 references: 11 Soviet, 1 Italian, and 1 Japanese.

ASSOCIATION:

Fizicheskiy Institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev of the Academy

of Sciences HSCD)

of Sciences USSR)

SUBMITTED:

April 20, 1960

Card 4/4

YEMEL YANOV, A. A.

Cand Phys-Math Sci - (diss) "Studies on the hydrodynamic theory of multiple formation of particles." Moscow, 1961. 12 pp; (Ministry of Higher and Secondary Specialist Education USSR, Moscow Order of Lenin and Order of Labor Red Banner State Univimeni M. V. Lomonosov, Scientific Research Institute of Nuclear Physics of Moscow State University); 100 copies; price not given; bibliography at end of text (31 entries); (KL, 5-61 sup, 172)

YEMELYANOV, A. A. and ROZENTAL, I. L.

"Interpretation of the Two-Centre Model within the Hydrodynamical Theory"

Report presented at the International Conference on Cosmic Rays and Earth Storm, 4-15 Sep 61, Kyoto, Japan.

P. N. Lebedev Physical Institute, Academy of Sciences of the USSR

\$/056/61/041/005/033/038 B112/B104

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Aug tout !

Yemel'yanov, A. A.

TITLE:

The theory of collisions between nucleons and heavy nuclei

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 5(11), 1961, 1673-1674

TEXT: In continuation of studies made by S. Z. Belen'kiy, G. A. Milekhin (ZhETF, 29, 20, 1955) and G. A. Milekhin (ZhETF, 35, 1185, 1958) the author studied the symmetry properties of the shower-particle distribution on the basis of the theory of hydrodynamics by L. D. Landau (Izv. AN SSSR. seriya fiz., 17, 651, 1953). Only with n > 3.7 (n is the number of nucleons in the counting tube) a secondary particle domain is formed. According to G. A. Milekhin (ZhETF, 31, 278, 1956) the angular distribution of the secondary particles can be calculated if a solution of the equation by I. M. Chalatnikov (ZhETF, 26, 529, 1954):

 $3 3^{2} \chi / 3 \eta^{2}$ $3^{2} \chi / 3 \gamma^{2} - 23 \chi / 3 y = 0$

Card 1/2

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R0019626 26718

The theory of collisions between

S/056/61/041/005/033/038 B112/B104

(χ is the hydrodynamic potential, η = Arth v, v is the velocity referred to the light velocity as unit velocity, $y = \ln(T/T_0)$, T is the temperature of the medium) is known for the secondary-particle domain. The author

demonstrates that every counting system in which the angular distribution of the secondary particles has forward - backward symmetry moves with a

 $V = th \left[\frac{4(n+1)+3\sqrt{3}}{2(7+4\sqrt{3})} - Arth \left(\frac{n-1}{n+1} \right) \right]$

relative to the center of mass system, e.g. with a velocity V=0.4 for n=6. The author thanks G. A. Milekhin for discussions. There are 8 references: 7 Soviet and 1 non-Soviet.

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences USSR)

SUBMITTED:

June 21, 1961

Card 2/2

34008

S/056/62/042/001/026/048 B155/B108

24.4400

AUTHOR: Yemel'yanov, A. A.

TITLE: Interpretation of the two-center model in the hydrodynamic

theory

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 1, 1962, 171 - 172

TEXT: The author describes "double-humped" showers, i. e., showers with two maxima in the angular particle distribution by means of the hydrodynamic theory. The model used is an ideal meson liquid in which the energy dissipation of a simple wave resulting from the effect of viscosity is calculated. Energy dissipation near the front of the meson cloud causes the formation of additional particles. Since these particles are the fastest of all they cause the two maxima in the angular distribution of the shower particles. The calculations were made for two possible temperature dependences of viscosity:

(1) = const. (2) aT³ (T is the temperature of the medium). With Card 1/3

34008 S/056/62/042/001/026/048 B155/B108

Interpretation of the ...

S = const, $\Delta N = 0.4(\text{Ta}^2)/\text{m}_{\text{L}})$ ln $(E_0/\text{m}_{\text{L}})$. $/\text{m}_{\text{L}}$ is the pion mass, ΔN is the number of additional particles, M is the nucleon mass, M = c = h = 1, Ta^2 is the interaction cross section; the relation holds strictly for $\Delta N/N \ll 1$, but it can still be used for $\Delta N/N \approx 1$. If the meson cloud is an ideal gas, $\int_{-M_{\text{L}}} /\text{Ta}^2$ and $\Delta N = 0.4$ ln $(E_0/\text{m}_{\text{L}})$. $D = (N_e - N_i)/n_g$ is a measure of the deviation of the angular particle distribution from the Gaussian shape. N_i is the particle number in the interval $x = \pm 0.6746$ with $x = \log \tan \vartheta_{\text{L}}$ (ϑ_{L} is the angle of emission in the laboratory system, ε is the dispersion of the angular distribution, and N_g is the number of particles outside the interval x. n_g is the multiplicity of the process. D slowly decreases as the energy E_0 increases. For $T \gg 1$, $\int_{-\infty}^{\infty} \sqrt{T_0}$ and $\Delta N = kT_0^2$ (T_0 is the initial temperature, $k \sim 1$ is an experimental constant). The energy dependence of the multiplicity of the elementary event is

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Interpretation of the ...

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 $n_s = k_0^{-1/4} + k_0^{-1/2}$. Depending on the value of k and on the energy interval considered, the multiplicity lies between the functions $\sim E^{1/4}$ (according to the Fermi-Landau theory) and $\sim E^{1/2}$ according to the Heisenberg theory. The model with $\int_0^{\infty} T^3$ can be applied only for high E_0 . The interpretation suggested for "double-humped" showers can be applied also to nucleon-nucleus and nucleon-nucleon collisions. The author thanks I. L. Rozental' for

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences USSR)

SUBMITTED: June 20, 1961

Card 3/3

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MASLOV, I.Ya.; KNYAZEV, V.S.; STEPANENKO, I.A.; Prinimali
uchastiye: VAYL¹, Yu.K.; NEMETS, L.L.; BELOUSOVA, I.V.;
STOLYARENKO, Ye.G.; YEMEL¹YANOV, A.A.; RYABOV, V.M.;
BEREZOVSKIY, V.D.; ZEFIROVA, Ye.G.; CHELOGUZOVA, Ye.F.;
SOLOTSINSKIY, S.Ye.; BOL¹SHAKOVA, K.A.; KHRAMOV, A.Ye.

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(Cracking process) (Catalysts)

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[Methodology for determining the economic efficiency of introducing new machinery, mechanization and autoration of industrial production processes. Approved by the State Planning Commission of the U.S.S.R. on December 9, 1961]Metodika opredeleniia ekonomicheskoi effectivnosti vnedreniia novoi tekhniki, mekhanizatsii i avtomatizatsii proizvodstvenrykh protsessov v promyshlennosti. Utverzhdeno 9 dekabria 1961 g. Moskva, Izdvo Akad. nauk SSSR, 1962. 45 p. (MIRA 15:11)

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YEMEL MANOV, Aleksey Davidovich [Economic efficiency of the automation of industrial production] Ekonomicheskais effektnost avtomatizatsii promyshlennogo proizvodstva. Moskva, Mashgiz, 1960. 195 p. (Automation) (MIRA 14:2)

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PHASE I BOOK EXPLOITATION SOV/5359

Yemel'yanov, Aleksey Davidovich

- Ekonomicheskaya effektivnost' avtomatizatsii promyshlennogo proizvodstva (Economic Efficiency of Automation in Industrial Production) Moscow, Mashgiz, 1960. 195 p. 6,000 copies printed.
- Reviewers: V.I. Petrov, Candidate of Technical Sciences, and A.I. Shuster, Engineer; Ed.: V.A. Letenko, Candidate of Economic Sciences; Ed. of Publishing House: A.A. Salyanskiy; Tech. Ed.: G.V. Smirnova; Managing Ed. for Literature on the Economics and Organization of Production (Mashgiz): T.D. Saksaganskiy.
- PURPOSE: This book is intended for economists, engineering-technical, and managerial personnel of establishments, ministries, Councils of the National Economy, for personnel of scientific-research and design institutes and for teachers of educational institutions.
- COVERAGE: The book deals with the nature of production automation, its significance in industrial development, and the basic premises for speedy automation of production in the machine-building industry. The bookpresents materials on

Card 1/6

Economic Efficiency (Cont.)

SOV/5359

the practical determination of the economic efficiency of introducing modern engineering methods, mainly the advantages of industrial automation, on detecting errors in economic analysis, and on methods for determining economic efficiency. The book was approved by the Nauchno-issledovatel skiy ekonomicheskiy institut, Gosplan SSSR (Scientific-Research Economic Institute of the State Planning Committee of the Council of Ministers, USSR). No personalities are mentioned. There are 31 references, all Soviet.

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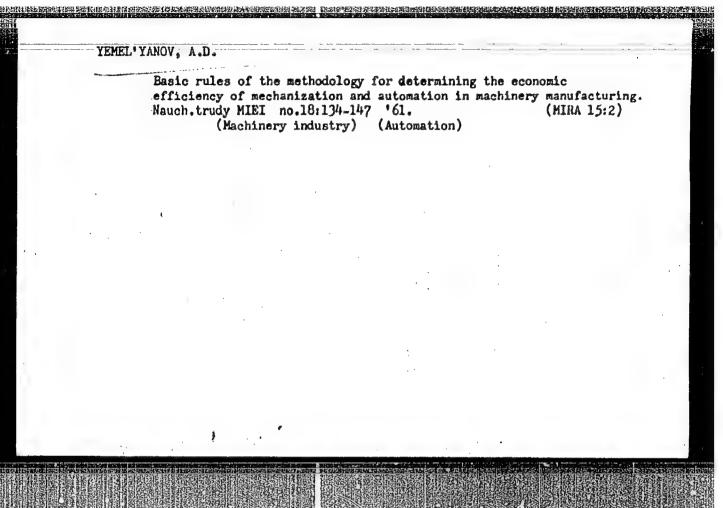
Ch. II. Characteristics of the Economic Efficiency of the Automation of Industrial Processes

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PONOMAIEVA, A.A., tekhnired.

[Economic efficiency of production mechanization and automation]
Ekonomicheskaia effektivnost' mekhanizatsii i avtomatizatsii
proizvodstva. Pod red. A.D.Emel'ianova i A.S.Tolkacheva. Moskva,
Izd-vo ekon.lit-ry, 1962. 347 p. (MIRA 15:4)

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2. Mauchne-issledovatel skiy ekonomicheskiy institut Gosekonom-soveta SSSR (for Yemel yanov, Tolkachev).

(Automation) (Machinery in industry)

YEMEL YANOV. A.F.

Modernization of the headstock of small lathes, used in timepiece production. Stan.i instr. vol. 24 no.9:26 S '53. (MLRA 6:10) (Lathes)

KARATETSKIY, S.S.; YEMEL'YANOV, A.F.

Effect of high-frequency coupling between detectors on the accuracy of a correlation method for measuring microwave generator fluctuations. Radiotekh. i elektron. 7 no.11:1896-1900 N '62. (MIRA 15:11) (Microwave measurements) (Oscillators, Electric)

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307/109-5-2-21/26

AUTHORS:

Kornilov, S. A., Yemel'yanov, A. F.

TITLE:

Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Brief Communication)

PERIODICAL:

Radiotekhnika i "elektronika, 1960, Vol 5, Nr 2,

pp 336-338 (USSR)

ABSTRACT:

Reference is made to previous work by the first-named author (this Journal, 1958, 3, 4, 522) regarding an ordinary klystron with biharmonic resonator and a triple-grid reflex klystron. A two-fold frequency division was described in the above articles. The subject of the present work is a study of klystron efficiency for frequency division by factors higher than two. A variant of klystron divider characterized utilization of preliminary bunching at governing frequency with a regenerative reflex oscillator was selected for tests. Such a klystron type is shown in Fig. 1.

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Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Brief Communication)

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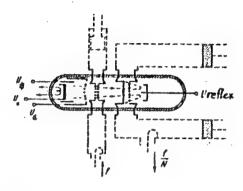


Fig. 1. Design of dividing klystron.

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Frequency oscillations f, which are to be divided, enter input resonator and modulate the electron beam velocity. The bunched beam governs the regeneration process at the divider output, which

Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Belef Communication)

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works on the principle of a fellex klystron, regenerated at a lower frequency T/N, where N is the frequency divisor. Electron beam current is controlled by the electron gun anode potential Ua. Focusing is assured by selection of an electrostatic potential (U) for the focusing ring. The klystron was designed for frequency division at 3,000 mc. The division was controlled by tuning a broad-band output resonator. The experiment used a saw-tooth voltage modulation. A two-fold division could be achieved both in auto-oscillation (synchronization) and potential (2nd type resonance) circuits. For divisors higher than 2, only synchronization could be achieved. Figure 3 shows the variation of synchronization band Δ f and of synchronized oscillation power $P_{f/N}$ for N=3 on input signal P_f power at different currents in input resonator gap. A common feature of these curves is the presence of a "ceiling".

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Experimental Investigation of a Klystron frequency Divider With Preliminary Funching (Belef Communication)

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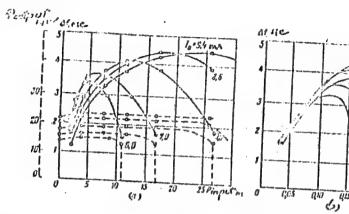


Fig. 3. (a) Dependence of synchronization band f on input power P_{in} at different currents, I_{o} , in klystron output gap; (b) dependence of synchronization band on modulation coefficient of beam for density m.

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Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Edef Communication)

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Figure 3b shows the same dependences as functions of beam modulation coefficient:

$$m = X_0 \left[1 - X_0 \frac{(hl)^2}{12} \right] \frac{\sin hl}{hl}$$
,

where X_O is bunching parameter, volume charge not discounted; h, debunching parameter; l, length of drift. All the above-shown curves were plotted at reflector potential -20 v (in the center of oscillation zone). Practically, a complete reflection of electrons was observed. Figure 4 shows the dependence of synchronization band on the divisor at retuning of the output resonator. Experimental results indicate that klystron principle can be applied successfully for frequency division with high divisors. As transmission coefficient of a k stron divider is greater than l, a cascade connection of several dividers is possible.

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Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Brief Communication)

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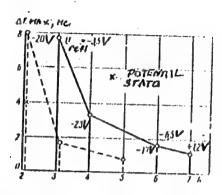


Fig. 4. Dependence of maximum synchronization band $f_{\mbox{\scriptsize max}}$ on divisor N.

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Experimental Investigation of a Klystron Frequency Divider With Preliminary Bunching (Brief Communication) 77788 SOV/109-5-2-21/26

There are 4 figures; and 4 references, 3 Soviet, 1 U.S. The U.S. reference is: T. J. Bridges, A Parametric Electron Beam Amplifier, Proc. I.R.E. 1958, 46, 2, 494.

SUBMITTED:

May 26, 1959

Card 7/7

YEMEL'YANOV, A.F.

New genera and species of leafhoppers (Auchenorrhyncha, Jassidae) from Kazakhstan. Ent. oboz. 38 no.4:833-839 159 (MIRA 13:3)

1. Zoologicheskiy institut AN SSSR, Leningrad. (Kazakhstan-Leafhoppers)

指用环境对于对外的环境的对比,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,

ARNOL'DI, L.V.; BORKHSENIUS, N.S.; GUR'YEVA, Ye.L.; DERBENEVA, N.N.;
YEMEL'YANOV, A.F.; KERZHNER, I.M.; KUZHETSOV, V.I.; LISINA,
L.M.; MISHCHENKO, L.L.; HARCHUK, E.P.; SHAPIRO, I.D.; SHAPOSHNIKOV, G.Kh.; SHTAKEL'BERG, A.A.; PUKHAL'SKAYA, L.F., red.izd-va;
KRUGLIKOVA, N.A., tekhn.red.

[Insect pests of corn in the U.S.S.R.; reference book] Nasekomye, vrediashchie kukuruze v SSSR; spravochnik. Moskva, 1960. 227 p. (MIRA 13:3)

1. Akademiya nauk SSSR. Zoologicheskiy institut. 2. Zoologicheskiy institut AN SSSR (for Arnol'di, Borkhsenius, Gur'yeva, Derbeneva, Yemel'yanov, Kerzhner, Kuznetsov, Mishchenko, Harchuk, Shaposhnikov, Shtakel'berg). 3. Vsesoyuznyy institut zashchity rasteniy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Lisina, Shapiro).

(Corn (Maize) -- Diseases and pests)
(Insects, Injurious and beneficial)

YEMEL YANOV, A.F.

New genera and species of leafhoppers (Auchenorrhyncha, Jassidae) from the U.S.S.R. Ent. oboz. 40 no.1:120-130 '61. (MIRA 14:4)

1. Zoologicheskiy institut AN SSSR, Leningrad. (Leefhoppers)

YEMEL'YANOV, A. F.

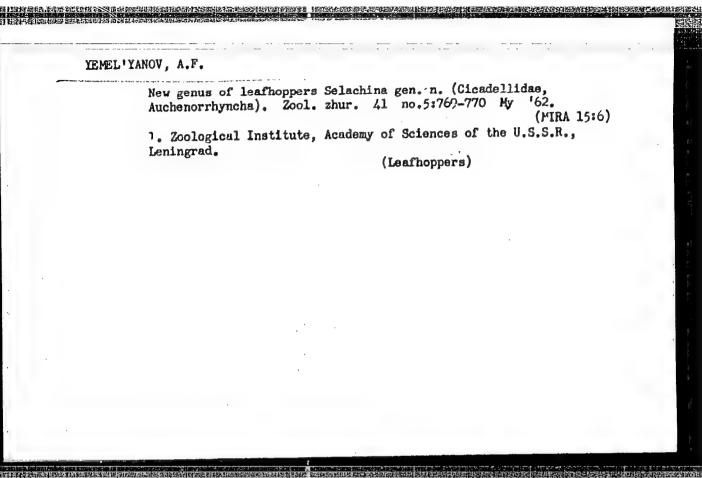
Materials on the taxonomy of Palearctic leafhoppers (Auchenorrhyncha, Euscelinae). Trudy Zool. inst. 30:156-184 '62. (MIRA 15:10)

(Leafhoppers)

YEMEL YANOV, A.F.

New tribes of leafhoppers of the subfamily Euscelinae (Auchenorrhyncha, Cicadellidae). Ent. oboz. 41 no.2:388-397 '62. (MIRA 15:11)

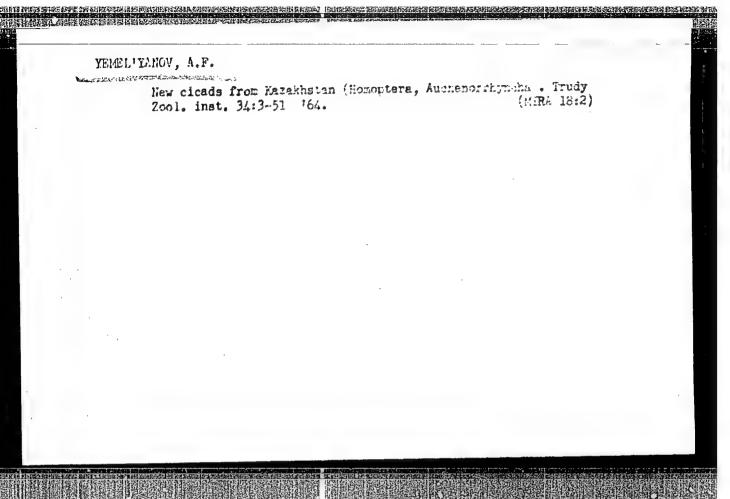
1. Zoologicheskiy institut AN SSSR, Leningrad. (Leafhoppers)



YEMEL'YANOV, A.F.

New genus of leafhoppers of the subfamily Ulopinae (Auchenorrhyncha, Cicadellidae). Zool. zhur. 42 no.10:1581-1582 '63. (MIRA 16:12)

1. Zoological Institute of the Academy of Sciences of the U.S.S.R., Leningrad.



到的大手把手来把手架的大块把手打了的双股上线的的环境,在心脏的时候上的手上。当时长头还是他的小腿上的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

YEMEL YANOV, A.F.

New species of steppe leafnoppers (Homoptera, Cloudellidae) from Transbaikalia and other eastern regions of the U.S.S.R. Ent. cboz. 43 no.3: 626-632 164. (MIRA 17:10)

1. Zeologicheskiy institut AN SSSR, Leningrad.

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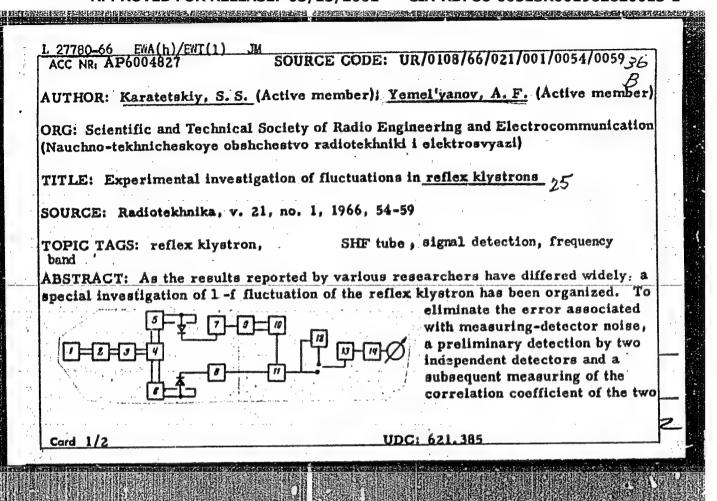
Food specialization of Auchenorrhyncha based on the faunistic material of central Kazakhstan. Zool. zhur. 43 no.7:1000-1010 *64.

1. Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad.

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Essential differences between the consortia of dominants and "assectators" as revealed by the distribution of oligophagous leafhoppers among plants. Bot.zhur. 50 no.2:221-223 F '65. (MIRA 18:12)

1. Zoologicheskiy institut AN SSSR, Leningrad. Submitted August 14, 1963.

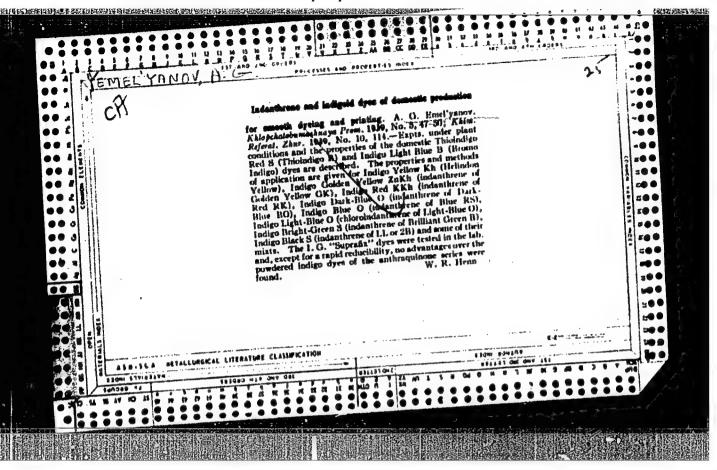


ACC NR. AP6004827 ignals were used. Energy from the klystron oscillator I being tested is applyounguide 2-3, to two amplitude detectors by means of bridge-type branching. Ferrite isolators 5 and 6 preclude coupling between the detectors. From irst detector, the signal is fed to amplifier 7 with paraphase final stage 9; frecond detector, the signal is fed to amplifier 8. Switch 10 applies both signal	the com the
Iternatively to summator 11. Spectrum analyzer 12 isolates the frequency bubject to fluctuation. Noise power is measured by square-law detector 13 tenated with averaging filter 14. It was found that: (1) The oscillator stability on the klystron load; (2) The amplitude stability of the oscillator is very high x 158 db/cps); (3) The frequency stability is much lower (x = 90 db/cps or orig. art. has: 8 figures, 4 formulas, and 1 table.	depends at 10 kc).

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962620013-1

L 10455-67 FM () ACC NR: AP6023876 SOURCE CODE: UR/0109/66/011/007/1311/1312 AUTHOR: Borisova, L. I.; Yemel'yanov, A. F.; Karatetskiy, S. S. ORG: none TITLE: Effect of h-f load on the sensitivity of a crystal detector when the harmonic-signal amplitude fluctuates SOURCE: Radiotekimika i elektronika, v. 11, no. 7, 1966, 1311-1312 TOPIC TAGS: crystal detector signal detection ABSTRACT: An experimental proof is reported of the following: (1) Reflected waves occur in the crystal-detector waveguide whose amplitude modulation is correlated with the AM of the signal being detected; (2) Because of these waves, the excess noise level, signal level, and detector sensitivity vary depending on the input impedance of the detector waveguide. Measurements were taken at 15 kc; the passband of 1-f amplifiers was 3 kc. Orig. art. has: 2 figures. SUB CODE: 09 / SUBM DATE: 21Jun65 / ORIO REF: 002



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Za vysokoye khudozhestvennoye oformleniye tkaney. (Shuyak. Ob*edin. fabrika). tekstil. prom-at', 1949, No. 11, n. 30-31

SO: Letopis' Zhurnal'nykh "tatey, No. 49, 1949

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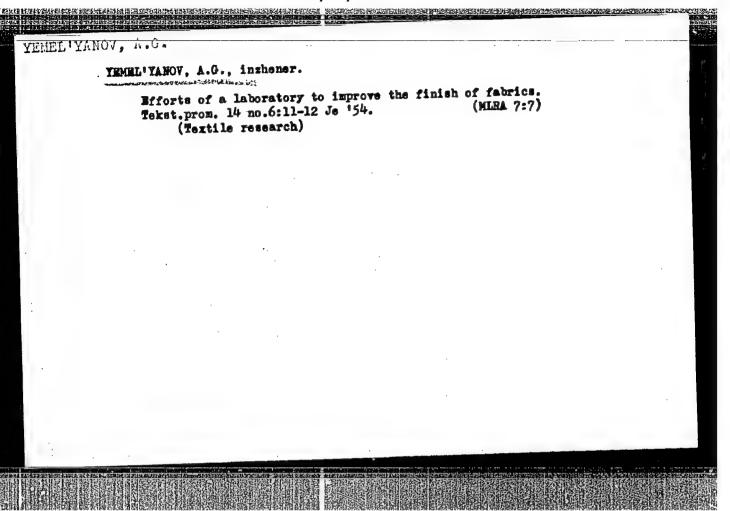
Cotton Manufacture.

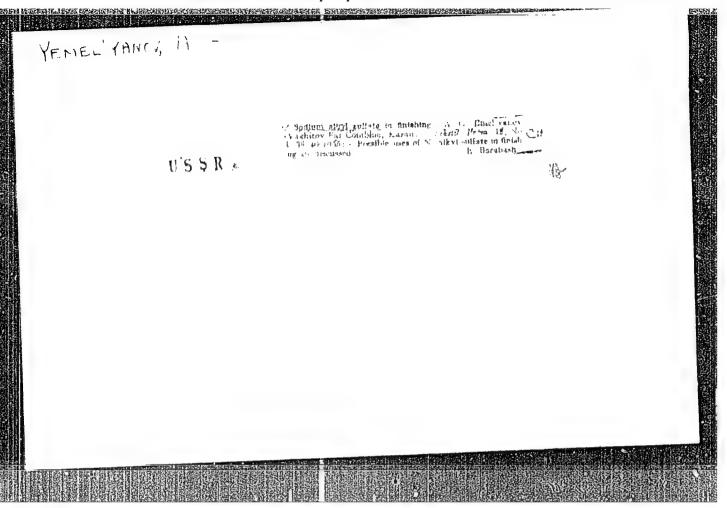
Reexamine the rules for operating cotton finishing mills., Tekst. prcm., 12, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

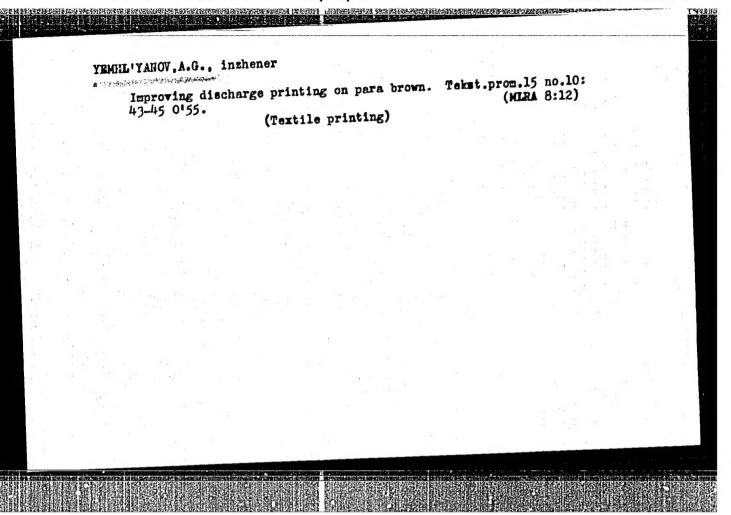
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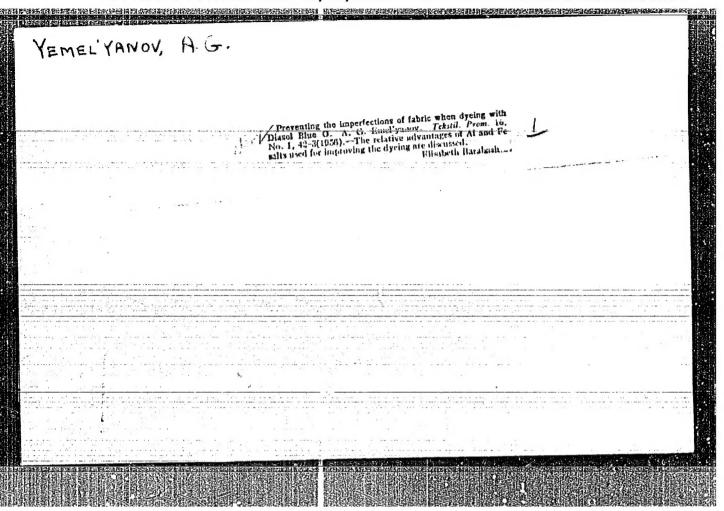
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A book on "Technical control in the cotton finishing industry"
by N.B.Fedorova, N.O. Knoretskii. Reviewed by A.G.Emel'ianov.
Tekst.prom. 16 no.9:66-67 B' 156.
(Textile finishing-Quality control) (Fedorova, N.E.)
(Thoretskii, N.O.)

